PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY PCT								
To: GLAXOSMITHKLINE CIP (CN925.1) Attn. Florence, Julia Anne 980 Great West Road Brentford, Middlesex TW8 9GS UNITED KINGDOM Carrella Car	POSMITHKINE TPOTATE INDIFFICATION OF TRANSMITTAL OF d BRENTH FENATIONAL SEARCH REPORT AND HE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION APR 2005 ADMIN: UPDATED ON: LSUICES (PCT Rule 44.1)							
ATTY CHECK	Date of mailing (day/month/year) 12/04/2005 RAD.							
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below							
JAF/PB60623 International application No.	International filing date							
PCT/EP2004/014381	(day/month/year) 15/12/2004							
Applicant								
GLAXO GROUP LIMITED								
1.								
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Josef Ullrich							

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international pretiminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims;
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

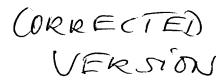
Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference JAF/PB60623	FOR FURTHER ACTION as	see Form PCT/ISA/220 s well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year,	(Earliest) Priority Date (day/month/year)
PCT/EP2004/014381	15/12/2004	17/12/2003
Applicant		
CLAYO CROUD LIMITED		
GLAXO GROUP LIMITED		
	been prepared by this International Searching ng transmitted to the International Bureau.	Authority and is transmitted to the applicant
This International Search Report con	sists of a total of sheets.	
X It is also accompanie	ed by a copy of each prior art document cited in	this report.
	, the international search was carried out on the I, unless otherwise indicated under this item.	e basis of the international application in the
	onal search was carried out on the basis of a $traction (Rule 23.1(b))$.	anslation of the international application furnished to
·	, , , , , , , , , , , , , , , , , , , ,	sed in the international application, see Box No. I.
2. Certain claims were	found unsearchable (See Box II).	
3. Unity of invention is	s lacking (see Box III).	
4. With regard to the title,		
the text is approved a	as submitted by the applicant.	
X the text has been est	ablished by this Authority to read as follows:	
BENZOTHIOPHENE AND E TREATMENT OF RESP		ENETHANOLAMINE DERIVATIVES FOR TH
5. With regard to the abstract,		
	as submitted by the applicant.	
		thority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.
6. With regard to the drawings ,		
 a. the figure of the drawings to 	be published with the abstract is Figure No	
as suggested	d by the applicant.	
<u></u>	by this Authority, because the applicant failed to	
_	by this Authority, because this figure better char	acterizes the invention.
b. none of the figures is	to be published with the abstract.	

Form PCT/ISA/210 (first sheet) (January 2004)

International Application No PCT/EP2004/014381

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER C07D333/54 C07D335/06 A61K31/	/38 A61P11/00						
According to	o International Patent Classification (IPC) or to both national classif	ication and IPC						
	SEARCHED		-					
	ocumentation searched (classification system followed by classification CO7D A61K	ation symbols)						
Documenta	tion searched other than minimum documentation to the extent tha	t such documents are included in the fields se	earched					
Electronic d	ata base consulted during the international search (name of data t	pase and, where practical, search terms used)					
EPO-Internal, WPI Data, CHEM ABS Data								
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	=						
Category °	Citation of document, with indication, where appropriate, of the r	elevant passages	Relevant to claim No.					
Α	WO 03/024439 A (GLAXO GROUP LIMI PHILIP, CHARLES; COE, DIANE, MAR B) 27 March 2003 (2003-03-27) the whole document		1–15					
Α	US 4 992 474 A (SKIDMORE ET AL) 12 February 1991 (1991-02-12) cited in the application the whole document		1-15					
		-/						
X Furth	ner documents are listed in the continuation of box C.	Patent family members are listed i	n annex.					
"A" docume consid "E" earlier of filing d "L" docume which citation "O" docume other of the reference of the	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family						
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report					
5	April 2005	12/04/2005						
Name and r	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,	Authorized officer Fritz, M						
	Fax: (+31-70) 340-3016	11162, 11						

1

International Application No
PCT/EP2004/014381

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
atogory.	The state of the following passages	
A	APPERLEY G H ET AL: "Selectivity of Beta-adrenoceptor agonists and antagonists on bronchial, skeletal, vascular and cardiac muscle in the anaesthetized cat" BRITISH JOURNAL OF PHARMACOLOGY, BASINGSTOKE, HANTS, GB, vol. 57, no. 2, 1976, pages 235-246, XP000926140 ISSN: 0007-1188 the whole document	1-15
A	EP 0 303 465 A (GLAXO GROUP LIMITED) 15 February 1989 (1989-02-15) the whole document	1-15

1

Information on patent family members

International Application No
PCT/EP2004/014381

	tent document in search report		Publication date		Patent family member(s)		Publication date
	02024420	^	27-03-2003	D D	0212455	Λ	19-10-2004
WO	03024439	Α	27-03-2003	BR	0212455		
				CA EP	2458534 1425001		27-03-2003 09-06-2004
				WO	03024439		27-03-2003
				HU MX	0401619		29-11-2004
					PA04002405		31-05-2004
นร	4992474	Α	12-02-1991	AR	244199		29-10-1993
				AR	245687		28-02-1994
				AR	247721		31-03-1995
				ΑT	390611		11-06-1990
				ΑT	129184		15-11-1989
				AU	573212		02-06-1988
				AU	2706484		25-10-1984
				BE	899448		18-10-1984
				BE	900835		17-04-1985
				BG	61490		30-09-1997
				CA	1335999		20-06-1995
				CA	1336004		20-06-1995
				CH	661497		31-07-1987
				CH	667084		15-09-1988
				CZ CY	9104028 1482		12-05-1993 08-12-1989
				CZ	285602		15-09-1999
				DE	3414752		18-10-1984
				DE	3448338		19-05-1993
				DE	3448452		05-01-1994
				DE	19575029		07-11-2002
				DK	158092		30-12-1992
				DK	201784		19-10-1984
				ES	8505641		01-10-1985
				ES	8609209		16-12-1986
				FΙ	841548	A .B.	19-10-1984
				FR	2545482	A1	09-11-1984
				GB	2140800		05-12-1984
				GB	2176476		31-12-1986
				GR	79925		31-10-1984
				HK	36889		12-05-1989
				HU	200160	В	28-04-1990
				ΙE	57237	B1	17-06-1992
				ΙL	71569		30-10-1987
				ΙT	1199112		30-12-1988
				JP	1862136		08-08-1994
				JP	5069817		01-10-1993
				JP	63264443		01-11-1988
				JP	1643826		28-02-1992
				JP	3000858		09-01-1991
				JP	59199659		12-11-1984
				JP JP	2001385 6087800		20-12-1995 29-03-1994
				JP JP	7029997		05-04-1995
				KE	7029997 3864		19-05-1989
				K E K R	9204186		30-05-1989
				LU	85329		04-06-1985
				LÜ	88265	My.	03-02-1994
				MY	0202226	Λ1	01_07_1002
				MX NL	9203226 930066		01-07-1992 01-09-1993

Information on patent family members

International Application No
PCT/FP2004/014381

	Information on patent family members			PCT/EP2004/014381		
Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0303465	Α	15-02-1989	EP JP US	030346 113956 496356	5 A	15-02-1989 01-06-1989 16-10-1990